



PATENT

Case Docket No. IMRAA.020A

Date: November 22, 2004

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant(s) : Donald J. Harter
Appl. No. : 10/848,746
Filed : May 19, 2004
For : FOCUSLESS
MICROMACHINING
Examiner : Unknown
Group Art Unit : Unknown

I hereby certify that this correspondence and all marked attachments are being deposited with the United States Postal Service as first class mail in an envelope addressed to: Commissioner for Patents, Mail Stop Amendment, P.O. Box 1450, Alexandria, VA 22313-1450, on

November 22, 2004

(Date)

James B. Bear, Reg. No. 25,221


TRANSMITTAL LETTER

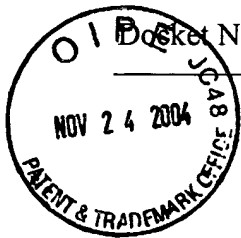
Mail Stop Amendment
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Sir:

Enclosed for filing in the above-identified application are:

- (X) An Information Disclosure Statement.
- (X) A PTO Form 1449 with 24 references.
- (X) The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment, to Account No. 11-1410.
- (X) Return prepaid postcard.


James B. Bear
Registration No. 25,221
Attorney of Record
Customer No. 20,995
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**INFORMATION DISCLOSURE STATEMENT**

Applicant : Harter
App. No. : 10/848,746
Filed : May 19, 2004
For : FOCUSLESS MICROMACHINING
Examiner : unknown
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Mail Stop Amendment
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Sir:


Enclosed is form PTO-1449 listing 24 references. Copies of disclosed U.S. patents and/or publications are not included pursuant to PTO waiver of the requirement under 37 C.F.R. § 1.98(a)(2)(i) for applications filed after June 30, 2003. Copies of other references, if listed, are enclosed.


This Information Disclosure Statement is being filed before the receipt of a first Office Action on the merits, and presumably no fee is required in accordance with 37 C.F.R. § 1.97(b)(3). If a first Office Action on the merits was mailed before the mailing date of this Statement, the Commissioner is authorized to charge the fee set forth in 37 C.F.R. § 1.17(p) to Deposit Account No. 11-1410.

Respectfully submitted,

KNOBBE, MARTENS, OLSON & BEAR, LLP

Dated: 11/22/04

By: 
James B. Bear
Registration No. 25,221
Attorney of Record
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FORM PTO-1449 U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE 	ATTY. DOCKET NO. IMRAA.020A	APPLICATION NO. 10/848,746
	APPLICANT Harter	
	FILING DATE May 19, 2004	GROUP Unknown

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE (IF APPROPRIATE)
	1	3,571,555	3/23/71	Townes, et al.			
	2	4,943,700	7/24/90	Hughes et al.			
	3	5,656,186	08/12/97	Mourou, et al.			
	4	5,847,863	12/8/98	Galvanauskas et al.			
	5	5,984,916	11/16/99	Lai			

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO

EXAMINER INITIAL	OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)	
	6	Principles of Nonlinear Optics, Chapter 17, Self- Focusing, Y.R. Shen, University of California, Berkeley, Copyright 1984 by John Wiley & Sons, Inc.
	7	Computer Studies in Self-Focusing, E. Dawes, J.H. Marburger, Physical Review Vol 179, No 3 / Mar 15 1969 p 862
	8	cw Self-Focusing and Self-Trapping of Light in Sodium Vapor, J. E. Bjorkholm, A. Ashkin, Physical Review Letters Vol 32 No 4 p 129, Jan 28 1974
	9	Determination of the inertial contribution to the nonlinear refractive index of air, N ₂ , and O ₂ by use of unfocused high-intensity femtosecond laser pulses, E.T. Nibbering, G. Grillon, M.A. Franco, B.S. Prade, A. Mysyrowicz, J. Opt. Soc. Am B/Vol. 14, No. 3, March 1997 pp 650
	10	Direct distortion of electronic clouds of rare-gas atoms in intense electric fields, R.R. Alfano, S.L. Shapiro, Physical Review Letters Vol 24, No 22 / June 1, 1970 p 1217
	11	Dynamical formation of a small-scale filament, J.H. Marburger, E. Dawes, Physical Review Letters Vol 21, No. 8 / Aug 19, 1968 p 556
	12	Fiber design-from optical mode to index profile, Pao-Lo Liu, Swades De, Physical Review Vol 179, No 3 / Mar 15 1969 p 862
	13	Intensity clamping of a femtosecond laser pulse in condensed matter, W. Liu, S. Petit, A. Becker, N. Akozbek, C.M. Bowden, S., Optics Communications 202, Feb 1, 2002 189-197
	14	Nondegenerate four-wave mixing enhanced by the AC Stark Effect, D. J. Harter, The Institute of Optics, The University of Rochester, Rochester, New York, 1982 Chapter 9
	15	Observation of self-phase modulation and small-scale filaments in crystals and glasses, R. R. Alfano, S. L. Shapiro, Physical Review Letters Vol 24 No 11 p 592, Mar 16 1970
	16	Possibility of Self-Focusing Due to Intensity Dependent Anomalous Dispersion-6A5-, A. Javan, P.L. Kelley, IEEE Journal of Quantum Electronics, Vol QE2 No 9,p 470, Sept. 1966

EXAMINER	DATE CONSIDERED
*EXAMINER: INITIAL IF CITATION CONSIDERED, WHETHER OR NOT CITATION IS IN CONFORMANCE WITH MPEP 609; DRAW LINE THROUGH CITATION IF NOT IN CONFORMANCE AND NOT CONSIDERED, INCLUDE COPY OF THIS FORM WITH NEXT COMMUNICATION TO APPLICANT.	

FORM PTO-1449 U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE INFORMATION DISCLOSURE STATEMENT BY APPLICANT (USE SEVERAL SHEETS IF NECESSARY)	ATTY. DOCKET NO. IMRAA.020A	APPLICATION NO. 10/848,746
	APPLICANT Harter	
	FILING DATE May 19, 2004	GROUP Unknown

EXAMINER INITIAL	OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)
	17 Pulse contrast enhancement of high-energy pulses by use of a gas-filled hollow waveguide, D. Homoelle, A. L Gaeta, V. Yanovsky, G. Mourou, Optics Letters Vol 27, No. 18 / Sept 15, 2002 p 1646
	18 Self-channeling of high-peak-power femtosecond laser pulses in air, A. Braun, G. Korn, X. Liu, D. Du, J. Squirer, G. Mourou, Optics Letters Vol 20 No 1, Jan. 1, 1995 p 73
	19 Self-focusing in pressurized air at 308 nm, Y Shimoji, A.T. Fay, R.S.F. Chang, N. Djeu, CLEO 1988/ Wednesday Poster p 236 paper WM44
	20 Self-focusing of light by potassium vapor, D. Grischkowsky, Physical Review Letters Vol 24, No 16 / April 20, 1970 p 866
	21 Self-trapping of optical beams , R.Y. Chiao, E. Garmire, C.H. Townes, Physical Review Letters Vol 13, No. 15 / Oct 12, 1964 p 479
	22 Self-Trapping of Optical Beams: Spatial Solitons, M. Segev, G. Stegeman, Physics Today, August 1998, Vol 51 No. 8 p 42
	23 Small-scale filaments in liquids and tracks of moving FOCI, M.M.T. Loy, Y.R. Shen, Physical Review Letters Vol 22, No 19 / May 12, 1969
	24 Ultrafast pulses promise better processing of fine structures, B. Craig, Laser Focus World Vol. 34 No. 9, Sept 1998 p. 79

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